

1. A method of combining a water-in-oil emulsion polymer with an aqueous saline well treating fluid without precipitation and coagulation of the polymer comprising the steps of:
mixing a polymer precipitation and coagulation preventing surfactant with said aqueous saline fluid to form an aqueous saline fluid solution thereof; and
combining said water-in-oil emulsion polymer with said aqueous saline fluid solution.
2. The method of claim 1 wherein said aqueous saline fluid is selected from the group consisting of unsaturated salt water, brine and seawater.
3. The method of claim 1 wherein said aqueous saline fluid is seawater.
4. The method of claim 1 wherein said polymer precipitation and coagulation preventing surfactant is selected from the group consisting of a C₄₋₁₂ alcohol ether sulfate substituted with 3 moles of ethylene oxide, a C₉₋₁₆ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 2.2 moles of ethylene oxide, a C₆₋₁₀ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 8 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 6 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 12 moles of ethylene oxide, and a C₁₄₋₁₆ alpha-olefin sulfonate.
5. The method of claim 1 wherein said polymer precipitation and coagulation preventing surfactant is a C₆₋₁₀ alcohol ether sulfonate substituted with 2.5 moles of ethylene oxide.

6. The method of claim 1 wherein said polymer precipitation and coagulation preventing surfactant is present in said aqueous saline fluid solution in an amount in the range of from about 0.2% to about 1.5% by weight of water in said solution.

7. The method of claim 1 wherein said polymer in said water-in-oil emulsion is selected from the group consisting of a copolymer of styrene and butadiene; a copolymer of 2-acrylamido-2-propane sulfonic acid and N,N-dimethylacrylamide; a terpolymer of 2-acrylamido-2-propane sulfonic acid, acrylamide, and N,N-dimethylacrylamide; guar gum and derivatives thereof; cellulose derivatives; polyvinyl pyrrolidone; xanthan gum and welan gum.

8. The method of claim 7 wherein said polymer is present in said water-in-oil emulsion in an amount in the range of from 30% to about 45% by weight of said emulsion.

9. The method of claim 1 wherein said water-in-oil emulsion polymer is present in said aqueous saline fluid solution in an amount in the range of from about 5% to about 50% by weight thereof.

10. A method of treating a subterranean zone penetrated by a well bore that comprises the steps of:

preparing a treating fluid comprising an aqueous saline fluid, a polymer precipitation and coagulation preventing surfactant and a water-in-oil emulsion polymer; and

introducing said treating fluid into said subterranean zone.

11. The method of claim 10 wherein said aqueous saline fluid is selected from the group consisting of unsaturated salt water, brine and seawater.

12. The method of claim 10 wherein said aqueous saline fluid is seawater.

13. The method of claim 10 wherein said polymer precipitation and coagulation preventing surfactant is selected from the group consisting of a C₄₋₁₂ alcohol ether sulfate

substituted with 3 moles of ethylene oxide, a C₉₋₁₆ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 2.2 moles of ethylene oxide, a C₆₋₁₀ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 8 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 6 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 12 moles of ethylene oxide, and a C₁₄₋₁₆ alpha-olefin sulfonate.

14. The method of claim 10 wherein said polymer precipitation and coagulation preventing surfactant is a C₆₋₁₀ alcohol ether sulfonate substituted with 2.5 moles of ethylene oxide.

15. The method of claim 10 wherein said polymer coagulation preventing surfactant is present in said treating fluid in an amount in the range of from about 0.2% to about 1.5% by weight of water in said aqueous saline fluid therein.

16. The method of claim 10 wherein said polymer in said water-in-oil emulsion is selected from the group consisting of a copolymer of styrene and butadiene; a copolymer of 2-acrylamido-2-propane sulfonic acid and N,N-dimethylacrylamide; a terpolymer of 2-acrylamido-2-propane sulfonic acid, acrylamide, and N,N-dimethylacrylamide; guar gum and derivatives thereof; cellulose derivatives; polyvinyl pyrrolidone; xanthan gum; and welan gum.

17. The method of claim 10 wherein said polymer is present in said water-in-oil emulsion in an amount in the range of from 30% to about 45% by weight of said water-in-oil emulsion.

18. The method of claim 10 wherein said water-in-oil emulsion polymer is present in said treating fluid in an amount in the range of from about 5% to about 50% by weight of said aqueous saline fluid therein.

19. The method of claim 10 wherein said treating fluid further comprises a hydraulic cement selected from the group consisting of Portland cements, slag cements, pozzolana cements, gypsum cements, alumina cements, and alkaline cements.

20. The method of claim 9 wherein said hydraulic cement is a Portland cement.

21. A cement composition comprising:

hydraulic cement;

an aqueous saline fluid sufficient to form a slurry;

a polymer precipitation and coagulation preventing surfactant; and

a water-in-oil emulsion polymer.

22. The cement composition of claim 21 wherein said hydraulic cement is selected from the group consisting of Portland cements, slag cements, pozzolana cements, gypsum cements, alumina cements, and alkaline cements.

23. The cement composition of claim 21 wherein said hydraulic cement is a Portland cement.

24. The cement composition of claim 21 wherein said aqueous saline fluid is selected from the group consisting of unsaturated salt water, brine and seawater.

25. The cement composition of claim 21 wherein said aqueous saline fluid is seawater.

26. The cement composition of claim 21 wherein said aqueous saline fluid is present in said cement composition in an amount in the range of from about 30% to about 65% by weight of cement therein.

27. The cement composition of claim 21 wherein said polymer precipitation and coagulation preventing surfactant is selected from the group consisting of a C₄₋₁₂ alcohol ether

sulfate substituted with 3 moles of ethylene oxide, a C₉₋₁₆ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 2.2 moles of ethylene oxide, a C₆₋₁₀ alcohol ether sulfate substituted with 2.5 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 8 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 6 moles of ethylene oxide, a C₈₋₁₀ alcohol ether sulfate substituted with 12 moles of ethylene oxide, and a C₁₄₋₁₆ alpha-olefin sulfonate.

28. The cement composition of claim 21 wherein said polymer precipitation and coagulation preventing surfactant is a C₆₋₁₀ alcohol ether sulfonate substituted with 2.5 moles of ethylene oxide.

29. The cement composition of claim 21 wherein said polymer precipitation and coagulation preventing surfactant is present in said cement composition in an amount in the range of from about 0.1% to about 1% by weight of cement therein.

30. The cement composition of claim 21 wherein said polymer in said water-in-oil emulsion is selected from the group consisting of a copolymer of styrene and butadiene; a copolymer of 2-acrylamido-2-propane sulfonic acid and N,N-dimethylacrylamide; and a terpolymer of 2-acrylamido-2-propane sulfonic acid, acrylamide, and N,N-dimethylacrylamide.

31. The cement composition of claim 21 wherein said polymer is present in said water-in-oil emulsion in an amount in the range of from 30% to about 45% by weight of said emulsion.

32. The cement composition of claim 21 wherein said water-in-oil emulsion polymer is present in said cement compositions in an amount in the range of from about 5% to about 50% by weight of cement therein.